

HYDROLOGIST

DEFINITION: Under general supervision, performs entry level professional work in hydrology involving research, data collection and analysis, data development and design in the areas of water quality, water resources and water rights; performs related work as assigned.

ESSENTIAL FUNCTIONS: This list is ILLUSTRATIVE ONLY and is not a comprehensive listing of all functions and tasks performed by incumbents of this class.

TASKS:

Provides assistance to senior level water Hydrologist positions engaged in water rights litigation; reviews, assesses and responds to federal reports issued by the Department of Energy; develops and presents observation work plans, ground water action plans, remedial action plans, and water sampling data; provides technical assistance in areas of geotechnical, hydrological and environmental controls; monitors field activities of federal agencies and other entities and their contractors.

Reviews water use and drilling permit applications; ensures compliance of water users with Navajo Nation laws before issuing permits; conducts site inspections, field evaluations, and field report writing, provides recommendations related to water development solutions to permit applicants; maintains databases of well data and locations; performs calculations of estimates of water usage; prepares fee structures for use in permitting process; completes analysis of maps based on Geographical Information System (GIS) work.

Provides technical assistance to tribal departments; conducts hydrologic, engineering, and GIS analysis; assists with writing proposals to obtain outside funding for studies, inventory, maintenance and development of existing and future water resources and systems; designs, engineers and coordinates water resource development projects including construction, project costs and management.

KNOWLEDGE, SKILLS AND OTHER CHARACTERISTICS:

Knowledge of professional hydrology and hydro-geology methods, practices and procedures.

Knowledge of federal, state and Navajo Nation laws, rules, regulations, and guidelines related to water resources, rights, quality, reclamation and protection.

Knowledge of Global Positioning and Geographical Information Systems methods, applications and procedures.

Knowledge of hydrological models, industry standards, US. Geological Surveys, and their relationship to water resources.

Knowledge of research, analysis, and interpretation methods.

Knowledge of field investigation methods and practices.

Knowledge of computer hardware, software and peripherals.

Knowledge of the development, preparation and writing of proposals and grants.

Skill in preparing reports, recommendations, proposals or grant applications based on research, analysis, and interpretation.

Skill in utilizing effective written and verbal communication in the development and presentation of research, analysis, reports, recommendations and technical information.

Skill in investigating and accurately interpreting information related to compliance or protection of water resources.

Skill in utilizing public relations/customer service techniques when responding to inquiries, requests and complaints.

Skill in establishing and maintaining effective working relationships.

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PHYSICAL REQUIREMENTS AND WORK ENVIRONMENT: Work requires field investigations over rough terrain in all weather conditions.

MINIMUM QUALIFICATIONS:

- A Bachelor's degree in Hydrology, Engineering, Environmental Science, Geology or a closely related field; and one (1) year hydrology experience.

PREFERRED QUALIFICATIONS:

- Two (2) years progressively responsible experience in hydrology, geology or engineering.

SPECIAL REQUIREMENTS:

- Possess a valid state driver's license.

Supplemental Requirements:

Incumbent must obtain a Navajo Nation Vehicle Operator's Permit within 90 days of date of hire.

Depending upon the needs of the Nation, some incumbents of the class may be required to demonstrate fluency in both the Navajo and English languages as a condition of employment.